A BIBLIOGRAPHY AND INDEX TO THE JOURNAL OF THE ROYAL SOCIETY OF WESTERN AUSTRALIA

VOLUMES 1 - 70

by A Bougher & V Semeniuk



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Foreword

Note from the President. The publication of a bibliography and index of the Journal of the Royal Society of Western Australia marks an important step in scientific publications in Western Australia. For the first time we have a full listing of all papers published from the inception of the Society's Journal in 1915 until 1988. In addition to being a most useful tool for scientists researching into aspects of the natural history of the State, this bibliography is most important in documenting the progress of science in Western Australia over this period. While the last decade or so has seen a great explosion in scientific journals around the world, for many years the Journal of the Royal Society was the main vehicle for publishing the results of Western Australian scientific endeavours. As such, the analysis of the types of papers published in the Journal and recorded in this bibliography and index provides a striking insight into the changing nature of scientific research in Western Australia during this century.

Another major step that is being taken with the publication of this bibliography is a change in format of the Journal, with an increase to A4 size. This reflects a trend that has been occurring in journal publications worldwide over the last five years. Advantages will be seen in a larger font size as well as a larger page size, a much overdue change. It is interesting to note that this increase in page size that Council of the Royal Society has initiated continues a trend that has occurred throughout the life of the Journal. At its inception in 1915, the page area of the Journal was 260 cm². By 1940 it had increased to 350 cm² and then to 420 cm² by the early 1960s. A slight increase to 440 cm² by the 1980s heralds the major increase to 621 cm² found in this bibliography and all subsequent publications. The next publication to make full use of the new format will be the Proceedings of the Leeuwin Current Symposium held in March 1991.

Thanks are due to the current editor, Wallace Cowling, for seeing through this format change, and the Government Printer of Western Australia, Mr Garry Duffield, for his continued support and help with this transition. Finally, I would like to commend Anthony Bougher and Vic Semeniuk for their noble effort in producing such a worthwhile publication for the Society, and Ian Abbott (Honorary Editor 1987-1990) for his encouragement and support of the project.

Ken McNamara, President, Royal Society of Western Australia, 1991-92

Note from the Honorary Editor. It is appropriate that the first issue of the Journal of the Royal Society of Western Australia in the new A4 format is a summary of the first 73 years of the Journal's existence. This Bibliography and Index to Volumes 1-70 provides an invaluable and lasting record of the natural sciences in Western Australia since 1915. It will remain an important primary source of references for students, teachers and researchers for many years. The information recorded in the Bibliography will interest the international community of scholars who will benefit from this record of scientific advances in Western Australia. The natural history of Western Australia shares many similarities with other parts of the world, and of course there are many startling contrasts that are of international importance.

The Journal of the Royal Society of Western Australia remains the only journal that covers all aspects of the natural and physical sciences as well as anthropology and archaeology in this State. Although not the sole purpose of the Journal, publication of articles of intense local interest remains an important and essential function. Today, many national and international journals will not accept for publication papers that are viewed as having only local content, even if the information is potentially important to scientists elsewhere in Australia or overseas.

The Journal has also developed a tradition of integrating knowledge from entire ecosystems, such as the Rottnest Island issue (Volume 66, Parts 1 & 2, 1983), the Banksia Woodlands Symposium (Volume 71, Part 4, 1989), and the forthcoming issue on the Leeuwin Current Symposium (which will occupy all of Volume 74, 1991). The integration of knowledge from several scientific disciplines in the Journal is well demonstrated in this Bibliography and Index to Volumes 1-70.

Throughout most of its history, and especially since Volume 40 in 1957, the Journal has been published on a calendar year basis with one volume per year. This pattern was interrupted in the 1980s due to difficulties in publication that are now resolved. The Government Printer has agreed to allow the Journal to "catch up" the necessary parts to publish Volume 75 in the calendar year 1992. For the benefit of librarians and authors, future Volumes of the Journal will be identified by month as well as Part, with the target months of publication as follows:

Part 1 (March) Part 2 (June) Part 3 (September) Part 4 (December)

The Journal is one of the main avenues by which the Royal Society of Western Australia fulfils its stated objective to "promote and assist in the advancement of science" (Constitution and Rules and Regulations, J Roy Soc WA 59:59-64, 1976). To this end, from Volume 75 the Journal will provide a forum for scientific debate through a new column "Letters to the Editor" and will attempt to improve communication among all scientific disciplines through a new section entitled "Recent Advances in Science in Western Australia." The Honorary Editor and the Publications Committee invite members and non-members to submit short (2-3 sentence) summaries of highly significant recent papers by Western Australian scientists, or others writing about Western Australia, for consideration of publication in this section. Please forward your suggestions to the Honorary Editor, or a member of the Publications Committee: Dr S D Hopper (Life Sciences), Dr A E Cockbain (Earth Sciences), and Assoc Prof J Webb (Physical Sciences).

This Bibiography and Index to Volumes 1-70 marks the beginning of many changes in the Journal of the Royal Society of Western Australia. I hope the changes are seen as positive and necessary to the majority of members and library subscribers, and that the Journal will take on new significance to the growing number of Western Australian scientists who view the integration of knowledge across disciplines as being particularly important.

Wallace Cowling, Honorary Editor, Royal Society of Western Australia

Contents

Foreword	iii
Contents	iv
Introduction	1
History of the Royal Society of WA	1
Method of Presentation	1
Subject Matter Trends	2
Acknowledgements	2
Bibliography	5
Subject Index	22
Locality Index	25
Author Index	28

A bibliography and index to the Journal of the Royal Society of Western Australia Volumes 1-70

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Introduction

In 1987, the Honorary Editor of the Royal Society of Western Australia, Dr l Abbott, commissioned us to prepare a bibliography of the Journal of the Royal Society of Western Australia (hereinafter referred to as the Journal). The Journal spans more than 73 years of publication history, and consequently there is a wealth of information held therein. The objective of this bibliography was to alert researchers to this core of information in the Journal, and also to allow them ready access to the information base through the use of indexes to specialised subject material.

Initially, this bibliography was to be completed by 1988, in time for publication as part of the 1988 Australian Bicentenary. However, other matters intervened, and the 1988 schedule was postponed. The process of listing and enumerating the numerous Journal articles was well under way by 1988, and therefore the original cut-off for the bibliography of Volume 70, 1988 was retained.

In addition to producing an alphabetical list of authors, year and articles, author index, and indexes to general and more specialised subject matter, we have attempted to summarize the trends over time in numbers of articles/papers published for the major disciplines. We have also subdivided subject matter in the field of geology, one of the most frequently published disciplines in the Journal.

Now that the basic bibliographic list is available, other researchers may use it as a means to investigate trends over time in their specialities, if they so desire. Copies of the data base on computer disc, and a quality print-out of the bibliography and index (for use in character scanning by optical devices), are lodged at the library of the Royal Society of Western Australia at in the Western Australian Museum, Francis Street, Perth, 6000. Future researchers are welcome to supplement this bibliography and to access the data set via computer. Computer disc copies are also available from the authors.

History of the Royal Society of WA

A brief history of the Royal Society of Western Australia (Inc.) is presented below, drawn largely from the work of C F H Jenkins (1965: Journal Royal Society of Western Australia 48: 33-44) and L Summers (1982: "A guide to the minutes and correspondence series of the Royal Society of WA Inc", a thesis for the Diploma in Information Management; Archives Administration in Univ of NSW, a copy of which is held in the library of the Western Australian Museum).

The Royal Society of Western Australia developed from a small, unnamed Natural History Society in the late 19th century, primarily interested in the fauna of the State, to the more diverse and larger organisation that exists today. The

original scientific society was founded in 1891 and operated for about 4 years, and was active in the establishment of a native flora/fauna reserve. Despite early enthusiasm of its members, the Natural History Society eventually became moribund. In July 1897, inspired by the work of Von Mueller, the society reformed into the Mueller Botanical Society, which identified and classified many of the unique flora in the State, and published the list as an eleven part journal. As the membership of the society increased, so did its spheres of interest, and in 1903 the society was renamed "The Western Australian Natural History Society" to reflect this change. The proceedings of that society were published as a volume in six parts. In August 1909 the society became the "The Natural History and Science Society of Western Australia". This name was retained for a further 4 years.

In 1913 the society applied for the right to call itself the Royal Society of Western Australia, and applied for Royal Patronage. In November 1913 the right to use the name "The Royal Society" was granted, and this was followed in early 1914 by confirmation of the King's willingness to act as Patron. In 1915 the first volume of the Journal was published. In 1937, the Royal Society applied for, and received, permission to become incorporated. The approval from King George VI was conveyed to the Society through the agency of the Governor, who became Vice-Patron, and the King agreed to continue as the Patron of the Society.

Throughout its history, commencing in 1915, the Royal Society of Western Australia has produced a Journal, publishing the various papers dealing with scientific, agricultural, natural history and conservation matters of the State, and articles (such as letters, annual reports and proceedings). Jenkins (1965) describes the history of the Journal of the Royal Society of Western Australia, and also those journals and publications of its predecessor societies.

Method of Presentation

This bibliography lists only those papers that were published in the Journal of the Royal Society of Western Australia, and not those papers published in predecessor journals (such as the Journal of the Proceedings of the Mueller Botanic Society of Western Australia, the Journal of the Natural History Society, and the Journal of the Natural History and Science Society).

There can be some confusion with regards to dates of Journal papers. Three types of dates are evident in the Journal. There may be one associated with the title page of a given paper; there may be a formal publishing date listed on the front cover of the Journal; and there also may be a third date that appears on the Journal cover that states the date that the Journal actually appeared. These three dates may not coincide. For this bibliography we used the date

associated with the title page of a given paper. It also is important to note that Journal volume numbers may not coincide exactly with years; some volumes spanned a number of years, and in one case three volumes were published in the one year (1948).

We have adopted a traditional approach in the presentation of this bibliography. The main bibliography lists authors, article title, Journal volume number and pages, and year of publication (as described above), and consists of over 800 articles, from Abbot to Wyrwoll, listed in alphabetical order. In addition, there is an author index, with cross-referencing of co-authors; a general and specialised subject index; and a location index. The choice of the subdivisions of the specialised subject matter index has been based on traditional boundaries, the range of material covered in the Journal, and our own familiarity with the subjects involved.

Subject Matter Trends

We have analysed some of the trends or patterns in publications of papers in the Journal. Our approach to this was as follows:

- perusal of title, abstract, and introduction of every paper in the bibliography to assign the paper to one of three major disciplines represented in the Journal: botany, geology, and zoology. Other disciplines such as chemistry, astronomy, archaeology, etc., are too sparse to warrant analysis;
- 2. classification of subject matter in the three major disciplines to a specialised sub-category, if appropriate (eg, aquatic botany, marine botany, etc). Classification of some of the subject matter was difficult because in many cases the specific paper covered subject matter that could be classified under a number of different headings - in these cases the paper was assigned to each of the specialised fields with which it dealt;
- 3. construction of a graph showing the number of articles or papers that were published in each of the major disciplines in five-year intervals during the period 1915 to 1985;
- 4. construction of a graph showing the types and number of the main specialised papers that were published in sub-categories of geology in five-year intervals over the same period as above, as an example to illustrate the trends of more specialised subject matter within a given major discipline. Future researchers are invited to analyse the more detailed trends of specialised papers in botany and zoology.

The trends of the numbers of papers published in the major disciplines of botany, geology and zoology are shown in Fig. 1. There has been a sub-equal contribution to the overall numbers of papers published in the Journal from each of the major disciplines, and the number of papers of all the major subjects generally have fluctuated similarly throughout the history of the Journal. The exceptions seem to be a major rise in proportion of papers in Geology published between 1940 & 1950, another rise in proportion of papers in Zoology published between 1960 & 1970, and the slight decline in Geology in the 1980's. The peaks and troughs of the graphs seem to bear little relationship to major events such as World War II. The Great Depression, between 1929 and 1935, may have been responsible the first decline in numbers of papers published that began in the five-year blocks encompassing

1930-1940. There is a peak of publication during World War II, followed by the deepest trough in the numbers of papers published in the Journal between the period 1945-1955. From 1955 onwards the number of papers and articles published in the Journal steadily increased to the present, with some small scale fluctuation in the fields of geology and zoology.

The trends of the numbers of a selected variety of specialised papers published in the discipline of geology are shown in Fig. 2. As described above, specific papers often covered subject matter that could be classified under a number of different headings, and thus the paper was assigned to each of the specialised fields with which it dealt. Consequently, the cumulative total of specialised papers shown in Figure 2 does not agree with the total number of Geology papers shown in Figure 1.

The variation over time of the number of papers in the various specialised geological categories do not show consistent patterns. There are particular periods when a greater proportion of papers dealt with a particular speciality subject - this may have been due to specific authors who were active for a time, and then moved on, or retired, etc. For example, the study of meteorites was a common subject in the Journal in the years between 1960 and 1975; stratigraphic studies were at their peak of activity during the interval 1955-1965; and mineralogy was at its peak of activity in the period between the 1920's and 1940's. While some of these trends are due to highly productive authors working in the area of their speciality, others are a sign of increased research activity that accompanied state-wide and nation-wide exploration activities, and in conjunction with increased availability of research funds administered by the government and industry. Some increased activity in a given specialised subject also reflects the input and availability of newly developed technology and instrumentation at the time (eg, x-ray diffraction techniques).

Acknowledgements. M Triffitt kindly directed us to the reference of L Summers. L Kenny and M Desbureaux assisted with the production of this bibliography. We also thank I Abbott for the opportunity to complete this work.

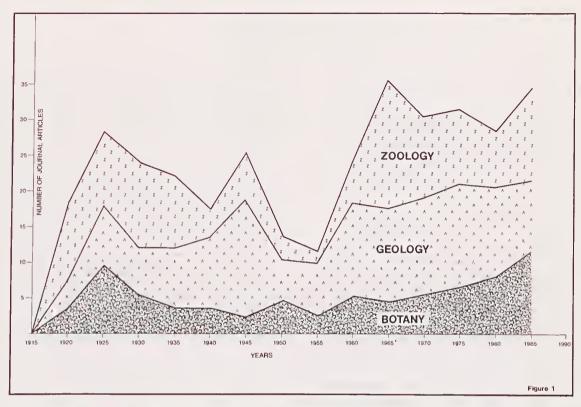


Figure 1. Graph showing the proportion of papers in the main disciplines of Botany, Geology and Zoology published in five-year blocks from 1915 to 1985.

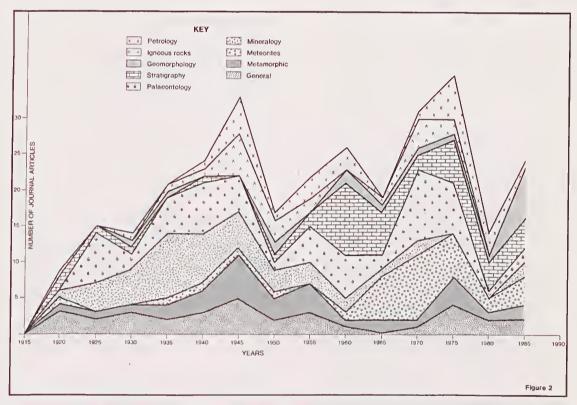


Figure 2. Graph showing the proportion of papers published (in five-year blocks from 1915 to 1985) in the selected various specialised categories in Geology. Note that a paper may be classified in more than one category if warranted. For example, the categories Igneous, Metamorphic and Mineralogy include papers that deal with field, geochemical and microscopic-petrologic aspects. A paper may be classified in both Petrology and one of these categories if the microscopic-petrologic component is substantial. Papers that exclusively involve microscopic-petrologic studies in the fields of sedimentary, igneous or metamorphic rocks or mineralogy are classified only in Petrology.



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Subject Index

AGRICULTURE

5, 17, 69, 74, 75, 76, 79, 97, 120, 121, 122, 123, 124, 142, 290, 297, 348, 356, 375, 403, 428, 433, 477, 507, 530, 546, 571, 717, 733, 744, 752, 753, 754, 760

ANTHROPOLOGY

16, 80, 83, 119, 450, 451, 452

ARCHAEOLOGY

172, 219, 220, 221, 324, 328, 329, 331, 523, 575, 586, 782

ASTRONOMY

628, 629, 631, 633, 635, 771, 779

BOTANY

All categories

1, 2, 3, 4, 17, 22, 23, 37, 38, 39, 41, 42, 43, 44, 45, 46, 53, 63, 64, 65, 66, 67, 68, 70, 71, 72, 75, 77, 81, 96, 100, 101, 102, 103, 104, 105, 108, 109, 111, 112, 113, 114, 116, 122, 131, 134, 135, 136, 141, 181, 183, 192, 198, 214, 215, 216, 218, 249, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 280, 282, 289, 302, 337, 338, 339, 340, 343, 347, 348, 356, 357, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 374, 376, 377, 384, 401, 406, 407, 408, 417, 418, 419, 420, 421, 436, 437, 438, 439, 441, 442, 447, 458, 477, 478, 481, 482, 483, 487, 495, 496, 507, 545, 572, 576, 577, 580, 588, 590, 623, 640, 641, 644, 645, 659, 661, 667, 680, 710, 711, 722, 734, 738, 774, 783, 784, 785, 787, 788, 789, 790, 791, 480, 793, 799

Aquatic botany 37, 181, 495, 793

Estuarine botany

22, 23, 41, 659, 667, 774

Island botany

1, 2, 3, 4, 71, 109, 110, 487, 576, 734, 738

Marine botany

23, 384, 406, 588, 659, 661, 667

Terrestrial botany

2, 3, 17, 38, 39, 43, 44, 45, 46, 53, 63, 64, 65, 66, 67, 68, 70, 72, 75, 77, 81, 96, 101, 102, 103, 104, 105, 108, 112, 113, 114, 116, 122, 131, 134, 135, 136, 183, 192, 198, 214, 215, 216, 218, 249, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 280, 282, 289, 302, 337, 338, 339, 340, 343, 347, 348, 356, 357, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 374, 376, 377, 401, 407, 408, 417, 419, 420, 421, 436, 437, 438, 439, 442, 458, 477, 478, 481, 482, 483, 495, 507, 545, 572, 577, 580, 581, 590, 623, 641, 644, 667, 680, 681, 710, 711, 722, 738, 783, 784, 785, 787, 788, 789, 790, 791, 480, 793, 799

Ecology

1, 2, 22, 63, 65, 70, 71, 72, 109, 111, 113, 114, 141, 192, 214, 347, 356, 363, 364, 367, 368, 429, 436, 478, 487, 576, 659, 667, 681, 710, 711, 738, 783, 785, 793, 799

Fire

44, 45, 46, 70, 71, 72, 113, 214, 218, 434, 447, 783, 785

Geographical distribution

2, 3, 4, 22, 41, 64, 65, 67, 68, 70, 96, 108, 112, 114, 141, 192, 216, 249, 263, 264, 268, 269, 270, 272, 274, 289, 337, 343, 361, 362, 364, 365, 366, 376, 408, 436, 458, 478, 545, 572, 590, 610, 640, 667, 711, 722, 734

Inventories

1, 2, 3, 4, 41, 46, 64, 67, 70, 81, 96, 100, 102, 108, 109, 111, 112, 141, 192, 214, 249, 263, 264, 267, 268, 269, 270, 271, 272, 273, 275, 276, 277, 282, 340, 343, 361, 362, 365, 366, 376, 377, 442, 458, 478, 495, 496, 545, 576, 623, 710, 711, 722, 734, 738, 783, 799

Palynology (modern and fossil) 52, 53, 140, 182, 183, 331, 391, 721

Parasitism

120, 122, 363, 367, 368, 546, 733

Phenology and plant growth

23, 42, 43, 44, 45, 46, 63, 72, 105, 142, 181, 214, 356, 406, 439, 447, 477, 507, 571, 680, 681, 783

Physiology

56, 105, 198, 216, 338, 339, 347, 401, 417, 439, 571, 583, 680, 789, 796

Plant extracts (oils, resins, etc.)

122, 278, 374, 401, 481, 482, 483, 577, 580, 581, 787, 788, 790, 791, 792, 480

Taxa—Non vascular (fungi, algae, mosses, lichens) 22, 42, 81, 105, 181, 183, 340, 356, 376, 377, 407, 582, 588, 644, 733, 774

Taxa—Vascular (ferns, gymnosperms, angiosperms)
1, 2, 3, 17, 23, 37, 39, 41, 42, 43, 46, 64, 65, 66, 67, 68, 70, 71, 72, 75, 77, 96, 100, 101, 102, 103, 104, 108, 109, 111, 113, 116, 131, 134, 135, 136, 192, 198, 214, 215, 216, 218, 249, 263, 264, 265, 266, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 280, 282, 289, 337, 340, 343, 347, 348, 357, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 374, 401, 406, 408, 417, 418, 419, 420, 421, 437, 438, 439, 441, 442, 447, 458, 478, 481, 482, 483, 496, 572, 576, 580, 581, 590, 623, 640, 641, 659, 667, 680, 722, 738, 783, 787, 788,

CHEMISTRY

539, 625, 638, 796

789, 790, 791, 480, 799

CLIMATE

84, 85, 223, 423, 424, 436, 440, 461, 522, 681, 721, 819

CONSERVATION AND LAND MANAGEMENT

2, 68, 83, 84, 85, 117, 154, 288, 297, 399, 440, 464, 520, 542, 658, 685, 811

COASTAL SCIENCE AND PROCESSES

60, 229, 232, 381, 382, 383, 386, 422, 649, 650, 651, 656, 657, 660, 661, 663, 664, 665, 667, 685

ECOLOGY

Aquatic

37, 138, 163, 181, 225, 226, 495, 510, 625, 654, 793

Estuarine

41, 382, 539, 607, 659, 667, 773, 774

Island

2, 3, 4, 44, 71, 109, 141, 226, 352, 380, 384, 456, 461, 463, 487, 576, 673, 684

Marine

18, 82, 284, 285, 370, 371, 372, 381, 383, 427, 435, 539, 588, 648, 659, 661, 667, 684

Salt lakes

226, 315, 380

Terrestrial

2, 3, 5, 45, 63, 65, 70, 72, 97, 108, 112, 113, 115, 139, 192, 203, 214, 218, 347, 348, 417, 429, 430, 434, 447, 464, 465, 475, 476, 478, 520, 572, 636, 667, 710, 736, 781, 783, 785, 799,800

ECONOMICS

24, 25, 26, 675

GEOGRAPHY

Biogeography 2, 7, 64, 405, 430, 738

(see COASTAL SCIENCE AND PROCESSES)

General

125, 156

Physiography

40, 114, 115, 125, 153, 156, 161, 178, 205, 412, 506, 526, 533, 594, 716, 734, 738, 772, 816

Science and society

209, 351, 479, 516, 534, 626, 636, 688

GEOLOGY

All categories 27, 28, 32, 40, 47, 48, 49, 50, 51, 54, 58, 62, 91, 92, 94, 95, 106, 125, 126, 128, 129, 132, 140, 153, 155, 157, 158, 159, 160, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 178, 179, 180, 182, 183, 185, 186, 187, 190, 191, 193, 194, 200, 205, 207, 208, 210, 211, 212, 213, 217, 221, 222, 227, 228, 229, 230, 231, 233, 234, 238, 239, 240, 246, 247, 250, 253, 255, 259, 260, 261, 262, 281, 291, 292, 295, 296, 299, 302, 311, 317, 320, 321, 322, 324, 325, 328, 329, 332, 336, 344, 349, 353, 370, 371, 372, 373, 378, 382, 388, 390, 391, 393, 394, 395, 396, 410, 411, 412, 414, 416, 423, 424, 425, 446, 448, 449, 453, 454, 455, 471, 472, 473, 474, 484, 488, 489, 490, 491, 492, 493, 494, 497, 498, 499, 504, 506, 517, 518, 519, 520, 521, 522, 526, 527, 529, 538, 569, 570, 573, 582, 584, 585, 587, 588, 589, 409, 591, 592, 593, 594, 596, 598, 599, 600, 601, 604, 606, 608, 609, 613, 614, 616, 619, 620, 634, 649, 650, 651, 652, 656, 657, 658, 660, 662, 663, 664, 665, 666, 674, 677, 686, 688, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 701, 702, 703, 704, 705, 706, 707, 716, 718, 719, 720, 727, 728, 729, 731, 755, 762, 763, 764, 765, 766, 767, 772, 784, 786, 794, 797, 802, 803, 808, 810, 812, 816, 819

Coasts

(see COASTAL SCIENCE AND PROCESSES)

Geochronology

58, 211, 213, 665, 731, 755

General Geology

27, 52, 153, 158, 161, 178, 205, 228, 231, 233, 251, 255, 261, 281, 326, 327, 330, 353, 410, 412, 449, 471, 490, 491, 506, 526, 527, 589, 594, 596, 598, 600, 601, 609, 690, 692, 693, 707, 727, 729, 756, 772, 803

Geomorphology

40, 156, 161, 229, 238, 239, 251, 254, 382, 384, 540, 541, 649, 654, 656, 657, 658, 659, 660, 661, 663, 665, 816, 818,

Igneous rocks

158, 161, 178, 251, 279, 325, 397, 410, 411, 412, 506, 526, 529, 537, 594, 595, 596, 598, 599, 600, 601, 727, 756, 806

Metamorphism and metamorphic rocks

58, 178, 227, 228, 230, 231, 233, 281, 318, 349, 388, 410, 411, 414, 473, 491, 506, 526, 527, 538, 594, 598, 600, 601, 602, 690, 700, 727, 728, 729, 730, 731, 756, 802, 805, 812

Meteorites (including tektites)

47, 48, 49, 50, 51, 95, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 207, 208, 210, 212, 260, 262, 336, 390, 484, 488, 489, 492, 493, 494, 702, 706, 770

Mineralogy

91, 92, 93, 126, 127, 128, 129, 177, 244, 245, 258, 279, 319, 334, 344, 414, 443, 444, 494, 538, 543, 544, 567, 595, 597, 604, 638, 639, 677, 686, 687, 689, 691, 693, 694, 695, 696, 697, 698, 699, 700, 701, 703, 704, 705, 708, 709, 757, 767,

222, 234, 246, 247, 291, 295, 296, 299, 302, 316, 317, 332, 370, 371, 372, 373, 391, 393, 394, 395, 396, 423, 424, 425, 437, 453, 455, 499, 504, 517, 518, 519, 520, 521, 569, 571, 573, 582, 591, 592, 593, 594, 605, 614, 615, 619, 620, 652, 674, 718, 719, 720, 762, 763, 764, 765, 766, 784, 794, 797, 808, 810

Palynology

(see Palynology in BOTANY)

Petrology

158, 178, 205, 227, 231, 233, 251, 281, 318, 321, 323, 324, 325, 328, 329, 378, 410, 497, 506, 527, 529, 538, 596, 598, 649, 728, 729, 772, 804, 807

Precambrian geology 58, 152, 158, 211, 213, 233, 255, 321, 329, 349, 388, 389, 397, 410, 414, 445, 446, 490, 491, 526, 527, 529, 537, 538, 596, 598, 599, 600, 602, 727, 728, 729, 730, 731, 755, 802, 803, 804, 806, 807, 812

Quaternary geology

40, 140, 236, 238, 239, 240, 423, 424, 425, 522, 589, 649, 651, 656, 657, 658, 662, 663, 665, 666, 816, 819

Resources

94, 174, 250, 448, 449, 587, 598, 634, 688, 707

Sedimentary rocks

52, 129, 151, 157, 160, 239, 250, 320, 321, 322, 323, 378, 411, 416, 474, 589, 662

Sedimentology

125, 130, 239, 248, 498, 588, 650, 656, 657, 664, 666, 674

Stratigraphy

40, 52, 151, 152, 155, 157, 159, 253, 254, 255, 292, 307, 311, 318, 320, 321, 322, 328, 353, 388, 391, 412, 415, 416, 445, 446, 454, 474, 490, 491, 497, 498, 584, 585, 589, 409, 602, 606, 609, 649, 651, 656, 658, 662, 664, 665, 666, 766

Structural geology/Tectonics

125, 155, 174, 236, 240, 259, 261, 411, 526, 609, 716, 766, 772, 804, 805

Groundwater/Hydrology

22, 154, 226, 426, 625, 654, 811

MISCELLANEOUS

25, 27, 38, 61, 83, 154, 237, 357, 379, 386, 387, 404, 459, 472, 647, 653, 692, 726, 817

OCEANOGRAPHY

140, 195, 385, 386, 422, 522, 589, 649, 670

PEDOLOGY (Soils)

1, 40, 70, 94, 117, 126, 127, 128, 142, 176, 281, 335, 345, 392, 417, 436, 528, 540, 541, 542, 601, 678, 679, 758, 759, 761, 768, 769, 818

PHYSICS

350, 432, 627, 628, 629, 630, 676, 771, 779, 801

```
ZOOLOGY
```

All categories
1, 2, 4, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 21, 29, 30, 33, 34, 35, 36, 55, 57, 59, 60, 71, 74, 76, 78, 79, 82, 86, 87, 89, 90, 98, 110, 111, 133, 137, 138, 139, 143, 144, 145, 146, 147, 148, 149, 150, 162, 163, 188, 189, 196, 197, 199, 202, 203, 204, 206, 218, 224, 225, 226, 235, 241, 242, 243, 252, 256, 257, 283, 284, 285, 286, 288, 293, 294, 298, 300, 303, 304, 305, 306, 308, 309, 310, 312, 313, 314, 315, 333, 341, 342, 346, 348, 352, 357, 358, 369, 380, 381, 384, 398, 400, 402, 407, 413, 713, 427, 430, 431, 433, 434, 435, 455, 456, 457, 460, 461, 462, 463, 465, 466, 469, 470, 475, 476, 485, 486, 500, 501, 502, 503, 505, 508, 509, 510, 511, 512, 513, 514, 515, 118, 524, 525, 531, 532, 535, 546, 547, 549, 550, 551, 553, 554, 555, 556, 557, 558, 559, 561, 562, 566, 572, 574, 578, 603, 607, 608, 610, 611, 612, 615, 622, 624, 636, 637, 642, 643, 645, 646, 648, 661, 668, 669, 670, 672, 673, 682, 683, 684, 712, 714, 715, 723, 724, 725, 732, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 773, 774, 775, 776, 777, 778, 780, 781, 795, 809, 813, 814, 815

Aquatic

10, 15, 20, 59, 137, 138, 163, 225, 226, 242, 243, 300, 304, 305, 308, 333, 358, 380, 713, 462, 463, 508, 510, 512, 531, 535, 553, 554, 555, 556, 557, 558, 559, 561, 615, 669, 673, 734, 751

Estuarine

308, 505, 607, 673, 773, 774

General zoology 9, 13, 196, 197

Geographical distribution

2, 4, 15, 20, 34, 55, 109, 133, 138, 202, 252, 285, 287, 298, 300, 301, 305, 308, 310, 381, 398, 402, 430, 435, 461, 469, 475, 509, 511, 514, 547, 572, 578, 610, 611, 661, 670, 734, 738, 742

Island

1, 2, 4, 35, 71, 98, 110, 111, 150, 309, 315, 352, 399, 413, 461, 486

Invertebrates

(see Taxa—invertebrates)

Marine

7, 8, 12, 18, 19, 21, 33, 34, 35, 36, 55, 60, 82, 89, 133, 188, 189, 196, 199, 206, 241, 283, 284, 285, 286, 287, 288, 293, 294, 303, 305, 308, 312, 313, 341, 342, 346, 381, 384, 427, 435, 500, 501, 502, 503, 513, 515, 532, 549, 550, 551, 552, 574, 608, 612, 622, 645, 646, 648, 661, 668, 670, 682, 683, 684, 732, 736, 738, 775, 776, 780, 795, 809

Parasitism

74, 76, 333, 402, 645

Physiology

30, 56, 57, 79, 87, 98, 155, 162, 305, 347, 369, 413, 427, 430, 465, 617, 637, 642, 643, 672, 724, 744, 781

Terrestrial

2, 5, 10, 11, 14, 16, 29, 30, 57, 74, 76, 78, 79, 86, 87, 90, 110, 139, 143, 144, 145, 146, 147, 148, 149, 150, 162, 202, 203, 204, 218, 224, 235, 252, 256, 257, 298, 300, 305, 306, 308, 310, 314, 315, 348, 352, 369, 398, 400, 402, 430, 431, 433, 434, 455, 456, 457, 460, 465, 466, 467, 469, 470, 475, 476, 485, 486, 509, 511, 514, 118, 524, 525, 546, 547, 562, 566, 568, 572, 578, 603, 610, 611, 612, 622, 624, 636, 637, 642, 643, 672, 712, 714, 715, 723, 724, 725, 735, 737, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 777, 778, 781, 795, 813, 814, 815

Taxa-invertebrates

Acanthocephala

333

Annelida

5, 400, 434, 435, 525, 553, 563, 615, 723

Arthropoda

4, 7, 8, 11, 12, 55, 59, 78, 90, 110, 133, 137, 143, 144, 145, 146, 147, 148, 149, 150, 199, 204, 218, 224, 235, 241, 242, 243, 256, 283, 284, 286, 287, 288, 291, 304, 305, 306, 341, 342, 346, 381, 402, 403, 427, 433, 434, 466, 467, 468, 469, 470, 475, 476, 486, 510, 524, 525, 531, 535, 546, 547, 549, 550, 551, 554, 555, 556, 557, 558, 559, 560, 561, 562, 564, 565, 566, 572, 578, 603, 610, 611, 612, 622, 636, 668, 669, 670, 673, 684, 712, 714, 715, 732, 773, 776, 777, 778, 780, 795, 798, 808, 810

Brachiopoda

155, 234, 316, 395, 593, 786

Bryozoa

193, 194, 797

Chaetognatha

775

Cnidaria (Corals, sea-anemones, jelly-fish) 157, 217, 370, 371, 372, 589

Echinodermata

106, 191, 246, 381, 574, 670, 682, 797, 809, 810

Mollusca

4, 33, 34, 35, 36, 60, 88, 188, 189, 190, 200, 247, 303, 317, 355, 381, 394, 398, 423, 424, 713, 434, 592, 606, 614, 670, 718, 719, 720, 762, 764, 765

Onychophora 396

Platyhelminthes 74, 76, 333

Protozoa

86, 133, 179, 180, 183, 499, 505, 569, 570, 588, 605, 606, 607, 608

Rhynchocoela

396

Inventories

4, 11, 12, 36, 55, 74, 82, 90, 110, 133, 150, 188, 189, 226, 256, 285, 287, 306, 346, 355, 380, 398, 434, 435, 466, 469, 475, 486, 505, 524, 546, 566, 610, 612, 622, 636, 668, 669, 670, 714, 715, 773, 774, 776, 780, 798

Taxa—vertebrates

Amphibia

185, 460, 462, 463, 572

Aves

1, 2, 4, 10, 111, 202, 293, 312, 313, 333, 485, 509, 511, 514, 572, 624, 646, 738

Mammalia

1, 4, 14, 29, 30, 32, 54, 62, 71, 79, 98, 111, 139, 162, 201, 221, 222, 257, 295, 296, 298, 299, 310, 314, 347, 348, 352, 399, 413, 425, 430, 434, 453, 455, 456, 457, 461, 465, 517, 519, 520, 521, 522, 118, 573, 591, 616, 617, 618, 619, 637, 724, 725, 738, 744, 781, 813, 814, 815

Pisces

12, 15, 18, 19, 20, 28, 89, 138, 206, 294, 358, 500, 501, 502, 503, 508, 510, 512, 513, 515, 532, 645, 648, 670, 751

Reptilia

i, 4, 87, 111, 163, 175, 252, 295, 300, 301, 308, 332, 431, 621, 642, 643, 735, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 750

Inventories

1, 2, 4, 10, 20, 111, 226, 285, 294, 295, 298, 300, 308, 309, 313, 485, 501, 646, 648, 670, 673, 734, 738, 746, 750

Vertebrates

(see Taxa—vertebrates)

WETLANDS

37, 163, 181, 222, 225, 226, 495, 615, 654, 655, 669, 793

Locality Index

Abrolhos Islands Clackline 238, 734, 738 506 Coates Albany 2, 294, 352, 412, 415, 505, 605, 729, 730 397 Augusta Cockburn Sound 382, 607 241 Badgingarra Comet Vale 70, 72 691 Barrow Island Coolgardie 109 52 Beedelup Brook Cuballing 358 50 Billeranga Hills Dalgety Downs 319 489 Boogardie Dampier 253 661, 667 Bremer Bay Dandaragan 416, 118 528, 709 Broome Darling Range 36, 175, 765 40, 46, 161, 178, 261, 281, 506, 526, 575, 596, 599, 601, Buccaneer Archipelago 636, 687, 700, 736, 768, 772, 799, 800, 818 229 Darwin 201, 659 Bunker Bay 414 De Grey River 115 Canning Basin 504 Derby 457, 656, 657 Canning Dam 599 Devil's Lair 54, 62, 221, 324, 674 Canning region 108, 114, 504 Dirk Hartog Island 111 Cape Beaufort 227 Donnybrook 129, 474 Cape Range 425, 510 Duketon 260, 262 Cape York Peninsula 11 Eighty Mile Beach 114 Cardabia 335 Esperance 190 Carnac Island Eucla Region 1 160, 165, 190, 259, 408, 454, 455, 492, 545, 573, 750, 806, Carnarvon Basin 316, 320, 497, 498, 613, 652, 763, 766, 786 Exmouth (N-W Cape) Cervantes 425, 510 488 Fitzroy River Chapman 295 754, 758 Fraser Range Chatham Island 806, 807 Garden Island Chichester Range 44,71 219 Gascoyne Region 16, 111, 165, 193, 219, 316, 320, 393, 395, 424, 425, 489, Chidlow 497, 510, 613, 763, 766, 782, 786 597 Chittering Valley Geographe Bay 281, 526, 700 648

Leschenault Inlet 658, 663 Geraldton Loch McNess 585 Gibson Desert 495 63 Lyons River 16, 497 Gingin 392, 784 Madura 52, 112, 151, 166, 169, 171, 172, 245, 260, 262, 279, 292, Goldfields region 259 32, 112, 131, 137, 137, 137, 137, 137, 130, 202, 273, 336, 349, 490, 527, 547, 595, 691, 770, 802, 806, 807 Malkup 178 Graball Mammoth Cave 49 519 Great Australian Bight Marchagee 133, 670 335 Great Sandy Desert Menzies 108 279 Greenough Merougal Creek 357 491 Gregory National Park (NT) Merredin 96 124, 754, 758 Haig 165 Mingenew 302, 584 Hamersley Siding Moora 410 446 Hampton Hill Mowla Bluff 171 108 Hart Range Mt Egerton 208 165 Irwin Basin Mt Francisco 155, 302 92 Japan Mt Hunt 692 349 Jerramungup Mt Lesueur 803 343 Jilakin Rock Mt Mulgine 3 211 Jimperding Mt Padbury 594 164 Kalgoorlie Murchison region 159, 164, 211, 212, 220, 253, 300, 409 245, 543, 595 Kimberley region 36, 115, 119, 193, 229, 230, 231, 249, 258, 295, 332, 378, Murchison River 396, 457, 484, 586, 609, 656, 657, 765 159, 300, 409 Narembeen King Sound 47 , 119, 656, 657 Narrogin Lake Ballard 436 166 Noonanbah Lake Joondalup 193 181 Lake Kondinin Norseman 160, 806, 807 537, 538 Nullarbor Plain Lake Lefroy 408, 454, 455, 467, 492, 545, 573 490 Lake Leschenaultia Nunyle 233 37 Ongerup Lancelin 51 Parkerville Laverton 687 151 Paterson Range Leonora

151

Peel Inlet/Harvey Estuary 41 Pemberton 358 Perth/Swan River 10, 22, 40, 45, 46, 84, 85, 95, 161, 179, 181, 195, 205, 218, 222, 223, 232, 313, 327, 329, 422, 423, 440, 475, 499, 535, 569, 575, 606, 611, 614, 636, 644, 651, 655, 662, 664, 665, 680, 712, 716, 721, 722, 768, 773, 774, 775, 793, 794 Phillips River 708, 812 Pilbara region 58, 92, 93, 109, 115, 173, 195, 254, 388, 389, 443, 509, 661, 667 Point Peron 239 Porongorup Range 710 Port Denison 549 Port Hedland 195, 744 Recherche Archipelago 4 Ripon Hills 254 Rottnest Island 35, 56, 57, 82, 98, 110, 140, 141, 150, 183, 188, 225, 226, 248, 309, 315, 353, 369, 379, 380, 384, 386, 387, 399, 413, 459, 460, 463, 486, 535, 548, 576, 589, 612, 614, 622, 646, 649, 653, 673, 680, 683, 684, 724, 725, 726, 736, 773, 776, 795, 798 Sahul Shelf 240 Shark Bay 111, 424, 475, 588, 782 Skull Cave 591 Solomon Islands 180 Southern Cross 802 South West region 1, 2, 3, 4, 5, 6, 10, 22, 32, 35, 37, 40, 41, 44, 45, 46, 47, 48. 51, 54, 55, 56, 62, 70, 71, 72, 82, 83, 84, 85, 94, 95, 97, 98, 122, 123, 124, 129, 130, 138, 140, 141, 150, 155, 156, 157, 158, 161, 179, 181, 183, 184, 188, 190, 191, 195, 200, 202, 205, 221, 222, 223, 225, 226, 227, 233, 238, 239, 248, 249, 250, 251, 252, 261, 281, 294, 299, 302, 309, 313, 315, 319, 321, 324, 325, 328, 329, 331, 335, 337, 343, 350, 353, 358, 379, 380, 381, 382, 383, 384, 385, 386, 387, 392, 399, 400, 401, 402, 411, 412, 414, 415, 416, 422, 423, 713, 433, 434, 436, 440, 444, 445, 446, 456, 459, 460, 474, 475, 476, 478, 486, 487, 488, 495, 499, 505, 518, 519, 521, 118, 523, 526, 528, 535, 537, 538, 540, 541, 542, 548, 549, 554, 555, 559, 563, 569, 575, 576, 578, 579, 584, 585, 589, 594, 596, 597, 598, 599, 601, 602, 605, 606, 607, 608, 612, 614, 636, 644, 645, 646, 648, 649, 650, 651, 653, 654, 655, 658, 662, 663, 664, 665, 666, 669, 670, 671, 673, 674, 680, 681, 734, 736, 738, 750, 754, 758, 768, 769, 772, 773, 774, 776, 784, 793, 794, 795, 798, 799, 800, 802, 803, 812, 818 22, 40, 41, 46, 140, 181, 192, 232, 250, 251, 307, 423, 475, 599, 614, 625, 636, 644, 649, 651, 654, 655, 662, 664, 665,

716, 722, 793

Tabba Tabba 93 Toodyay 598 Wallal 301, 631 Walpole 200 Wandagee 193 Warburton Range 494 Warralakin 48 Watheroo 325, 445 Windjana Gorge 332 Wooramel River 393, 395, 497 Yampi Sound 229 Yandanooka 321 Yarri 173 Yilmia 336, 770 York 540, 727, 818 Youndegin

Author Index

	Bell D T
Abbott 1	70, 71, 72, 214, 347, 348, 783, 793 Benl G
Alcock P J 613	73 Bennetts H W
Alexander W B 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17	69, 74, 75, 76, 77
Allen G R 18, 19, 20, 21, 206	Benson R B 78
Allender B M	Berkovitz B K B 79
22, 23 Allum F E	Berndt R M 80, 523
24, 25, 26 Archbold N W	Bettenay E 417
27, 28	Bibby P 81
Archer M 29, 30, 31, 32	Bird W H
Ashby E 33, 34, 35, 36	119 Black R
Atkins R P 37	4, 82, 578 Blakely W F
Audas J W 38, 39	458
Aurousseau M	Bolton G C 83
Backshall D J	Bottomley G A 84, 85
41 Baird A M	Bourne G 86, 87, 88
42, 43, 44, 45, 46, 408, 722 Baker G	Bowen B K 89
47, 48, 49, 50, 51 Balme B E	Bowley E A
52, 53, 182, 331	Bowley H
Balme J 54	91, 92, 93, 94, 95 Bowman D M J S
Balss H 55	96 Boyd W J R
Barker J 57	97, 428
Barker S 56, 57	Bradshaw S D 98, 352, 642, 643
Barley M E 58	Braybrooke J C 491
Barnes H M	Brewin B l 99
59, 561, 562 Basingthwaighte G	Bridgewater P B 41, 192
60 Battye J S	Brittan N H
61 Baxter J L	100, 101, 102, 103 Brooker M I H
211	104 Broughton H C
Baynes A 32, 62	105 Brown 1 A
Beard J S 63, 64, 65, 66, 67, 68	106
Beck A B 69	Brown K R 475
	20

```
Browne M A
107, 708
                                                                Clarke J R
                                                                    162
                                                                Clay B T
Buckley R
     108, 109
                                                                     163
Budge £ A
                                                                Cleverly E I
                                                                    172
     40
                                                                Cleverly W H
Bunn S E
     110,578
                                                                     164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 492
Burbidge A A
                                                                Cockbain A E
                                                                    174
    111
Burbidge NT
                                                                Colbert E H
     112, 113, 114, 115, 116
                                                                    175
                                                                Cole W F
Burvill G H
                                                                    176, 177, 178, 678, 679
     117
                                                                Coleman P J
Butler W H
                                                                    179, 180
     118
Campbell N A
                                                                Condon M A
                                                                    409
     97
                                                                Congdon R A
Campbell W D
                                                                    37, 181
     119
                                                                Cookson I C
Carne W M
                                                                    182, 183, 184
    120, 121, 122, 123, 124
                                                                Cosgriff J W
Carrigy M A
                                                                    185, 186, 187
    125
                                                                Cotton B C
Carroll D
                                                                    36, 188, 189, 190
    126, 127, 128, 129, 130
                                                                Crespin I
Cattell F C
                                                                    132, 191
    85
                                                                Cresswell 1 D
Cayzer A
                                                                    192
    131
                                                                Crockford J
Chalmer P N
                                                                    193, 194
    661
                                                                Curlewis H B
Chapman F
                                                                    195
     132, 133
                                                                Dakin W I
Chapman F E
                                                                    196, 197, 198
    544
                                                                Daniel A
                                                                    199
Chase R L
    446
                                                                Darragh T H
                                                                    200
Cheel E
    134, 135, 136
                                                                Davies SJJF
                                                                    201, 202, 203
Chilton C
    137
                                                               Davis C
Chippendale G M
590
                                                                   204
                                                               Davis C E S
                                                                   205
Christensen P
    138, 139
                                                               Dawson C E
                                                                   206
Churchill D M
    52, 140, 141
                                                               De Laeter J R
                                                                   58, 207, 208, 209, 210, 211, 212, 213, 539, 625, 755
Chute J H
    142
                                                               Delfs J C
                                                                   72, 214
Clapp R A
142
                                                               Dell B
                                                                   215, 216
    143, 144, 145, 146, 147, 148, 149, 150
                                                               De Laubenfels M W
                                                                   217
Clarke D J
                                                               De Rebeira C P
    232
                                                                   646
Clarke E de C
    130, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161,
                                                               Di Lollo V
                                                                   383
    231, 756
```

Dix W C Freedman L 523 257 Dolva J M Frost M J 218 258, 259, 260, 261, 262 Dortch C E Garbutt N K 219, 220, 221, 331 187 Douglas A M 222 Gardner C A 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 368 Douglas W H 523 Garkaklis B V 440 Drover DP 223 Garstone J D Drummond F H N 279 224 Gathe J Edward D H 280 225 Geary J K Edward DHD 281 226 George AS Edwards A B 111, 277, 282 227, 228, 229, 230, 231 George R W Eisenack A 283, 284, 285, 286, 287, 288, 780 183, 184 Gill A M Eliot I G 289 232 Girardi E L Elkington C R 713 233 Gladstones J S Elliott G F 290 234 Glaessner M F Evans J W 291 235 Glassford D K Everingham I B 292,662 236 Glauert L Everson D W 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 237 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315 Fairbridge R W Glenister B F 125, 155, 238, 239, 240 316, 317, 353 Fairbridge W S Gloe CS 241, 242, 243 178 Farquharson R A Glover J E 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 244, 245 Feldtmann F R 329, 330, 331, 416 246, 247 Goodchild N A Finlayson C M 97 37 Gordon D M Finucane K J 37 248 Gorter J D Fitzgerald W V 332 249 Goss O M Fletcher R W 333 250, 251 Grace J N A Ford J 334 252 Graham J Forman D J 335, 336 253, 254 Greaves G A Forman F G 392 248, 255 Forster RR Green AJA 110 256 Foulds W Green J W

141, 337, 576

```
Grieve B J
                                                                 Hosie D J
       338, 339, 340
                                                                     212
                                                                Hosking J S
  Griffin DJG
      341, 342
                                                                     392
  Griffin E A
                                                                Hosking LFV
                                                                    393, 394, 395, 396
      343
                                                                Hudson DR
  Grindley J R
      286
                                                                    390, 397
  Grubb P L C
                                                                Hutchinson D
      344, 345
                                                                    83
                                                                Iredale T
  Haig J
      346
                                                                    398
                                                                Iveson J B
  Halford DA
                                                                    352, 399
      347, 348
                                                                Jackson A
 Hallam S J
                                                                    400
      523
                                                                Jackson A A
 Hallberg J A
                                                                    563
      349
                                                                James S H
 Hancock W J
                                                                    572
     350, 351
                                                                Jeffery P M
 Hart R P
                                                                    493
     352, 399
                                                                Jeffries P R
 Hassell C W
                                                                    401
     353
                                                               Jenkins CFH
 Hatch A B
                                                                    315, 402, 403, 404, 405
     354
                                                               Jennings R
 Hayton J D
                                                                    406
     639
                                                               Johnson E R L
 Hedley C
                                                                    407, 408
     355
                                                               Johnson M S
 Henderson R M
                                                                    82
     356
                                                               Johnstone D
                                                                   409
     17, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367,
                                                               Iohnstone M H
     368
                                                                   410, 411
Herrick E H
                                                               Jutson J T
     369
                                                                   412
Hill D
                                                               Kakulas B
     370, 371, 372, 373
                                                                   413
Hill H E
                                                               Kalocsai G I Z
    374, 375, 760
                                                                   731
Hilton R N
                                                               Kay J G
     105, 376, 377
                                                                   414, 415, 416
Hobson R A
                                                               Keay J
    251, 378
                                                                   417
                                                              Keighery G J
    379, 380, 381, 382, 383, 384, 385, 386, 387, 579, 682
                                                                   418, 419, 420, 421
Hoese D F
                                                               Kempin E T
    20
                                                                   422
Hopkins A J M
                                                              Kendrick G W
    343
                                                                   200, 222, 423, 424, 425, 713
Hopper S D
                                                              Kennedy W
    641
                                                                   426
Horwitz R C
                                                              Kenny R
    388, 389, 390
                                                                   427
Hos D
                                                              Khan T N
    391
                                                                  428
Hoseman P
                                                              Kinnear J E
    613
                                                                  430
```

Kingsmill W Main A R 430, 459, 460, 461, 462, 463, 464, 465 429 Kluge A G Main B Y 431 466, 467, 468, 469, 470 Maitland A G Knapp A 432 471, 472, 473, 474 Kneebone EWS Majer J D 434, 475, 476, 636 353 Knott M E Malcolm C V 287 477 Koch L E Marchant N G 433, 434, 476 478 Marsh DRC Kott P 435 479 Kuiter R H Marsh L 21 384 Lane-Poole C E Marshall G E 17 481, 482, 483, 480 Lange R T Mason B 436, 437 484 Lamont B Mathews G 438, 439 485 Lax F Mathews W H 440 486 Lazarides M McArthur W M 441, 442 487 Le Mesurier C R McCall G J H 443, 444, 709 488, 489, 490, 491, 492, 493, 494 Le Provost I McComb A J 661 181, 495 Leftwitch T McComb J A 139 495, 496 Limbourn J E McGann G J 124 497, 498 Logan B W McGowran B 445, 446 499 Loneragan J F McKay R J 447 500, 501, 502, 503 Loneragan O W McKenzie K G 447 504, 505 Loneragan W A McTavish R A 70, 71, 72, 347, 348, 783 180 McWhae J R H Lord J H 448, 449 160, 506 Love J A B Meadly G R W 450, 451, 452 507 Lowry D C Meagher T D 411 663 Lowry JW J 508, 509, 510, 511, 512, 513, 514, 515 453 Ludbrook N H Mensaros A 454 516 Lundelius E L Merrilees D 54, 62, 175, 221, 222, 517, 518, 519, 520, 521, 522, 118, 5²³ 455, 456 Meyer-Rochow V B Mackenzie J S 524 725 Michaelsen W Mahoney J A 525 457 Middleton D D Maiden J H

491, 807

Miles K R Pen L J 526, 527, 528, 529 576 Millington A J Penfold A R 530 577 Milner D F Perry DH 531, 564 578 Milward N E Phillips B F 532 288, 385, 579 Montgomery A Phillips L W 533, 534 580, 581 Montgomery S K Pia J 535 582 Moredount J C Pittman H A 71 583 Morgan C I Playford G 536 584 Morgan G R Playford P E 288 585, 586, 587, 588, 589, 409 Morgan W R Podger F D 537, 538 590 Morris P D Porter J K 539 54, 62, 425, 591 Morris P F Prendergast K L 39 155, 592, 593 Mulcahy M J Prider R T 540, 541, 542 158, 416, 594, 595, 596, 597, 598, 599, 600, 601, 602 Murray DG Princis K 543, 544 603 Nelson E C Pryce N W 545 604 Newman L J Ouilty P G 546 411, 605, 606, 607, 608 Nicholls A G Quirk J P 142 547, 548, 549, 550, 551, 552 Nicholls C A Rade J 609 536 Nicholls G E Rayment T 610, 611, 612 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, Read J F Nicoll R S 613 332 Reath J L Norris K R 614 566, 567 Rhodes A 232 Packer W C 568 Richardson K C Parker C A 565 5 Richardson L R Parr W J 615 133, 569, 570 Ride W D L 616, 617, 618, 619 Pate J S Rightmire G P 214, 571 257 Paterson H E Ripper E A 572 Patridge J 620 Robb J 573 621 Pawson D L Robertson W A 574 440 Pearce R H Roewer CF 575

```
Sheperd S A
Rogers R S
                                                                    682
    623
                                                               Shield J W
Rooke I J
                                                                    387, 683, 684
    624
                                                               Shields W H
Rosman K G R
                                                                    685
    539,625
                                                               Shipton W A
Ross A D
                                                                    428
    626, 627, 628, 629, 630, 631, 632, 633, 634, 635
                                                               Simpson E S
Ross J S
                                                                    412, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696,
    5
                                                                    697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708,
Rossbach M H
                                                                    709
    636
                                                               Singh B B
Rotenberg D
                                                                    97
    637
                                                                Slack-Smith S
Rowledge H P
                                                                    713
     638, 639
                                                                Smith G G
Rupp H M R
                                                                    23, 81, 384, 644, 710, 711
     640
                                                                Snowball G J
 Russell T G
                                                                    712
     731
                                                                Solem A
 Rye B L
                                                                    713
     641
                                                                Solomon M E
 Saint Girons H
                                                                    714, 715
     642, 643
                                                                Somerville J L
 Sammy N C
                                                                    716
     644
                                                                Southern B C
 Samuel L W
                                                                     717
     761
                                                                Spath L F
 Sandars D F
                                                                     718, 719, 720
     645
                                                                Speck N H
 Saunders D A
                                                                     721, 722
     646
                                                                 Springnett J A
 Saw W A
                                                                     723
      647
                                                                 Stanley N F
 Scott J K
                                                                     724, 725
      218,648
                                                                 Sten T
 Searle D J
                                                                     726
      649, 650, 651, 664, 665, 666
                                                                 Stephenson N C N
 Seddon G
                                                                      727, 728, 729, 730, 731
      652, 653
                                                                 Stephenson W
 Segroves K L
                                                                     732
      53
                                                                 Stewart R E
 Semeniuk C A
                                                                      733
      654, 655
                                                                 Storr G M
                                                                      141, 673, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743,
      649, 650, 651, 656, 657, 658, 659, 660, 661, 662, 663, 664,
                                                                      744, 745, 746, 747, 748, 749, 750
      665, 666, 667
                                                                 Strahan R
  Serene R
                                                                      751
       668
                                                                  Stubbs D
  Serventy D L
                                                                      731
       669, 670, 671, 672, 673
                                                                  Sutton G L
  Shackley M
                                                                      752, 753, 754
      674
                                                                  Sylvester G C
  Shann E O G
                                                                      755
       675
                                                                  Talbot H W B
  Sheard K
                                                                      756
       386
                                                                  Tarlton-Phillips H
  Shearer J
       676, 677, 678, 679
                                                                      156, 157, 158
                                                                  Taylor L E R
  Shelton W E
                                                                      757
       680, 681
```

Teakle L J H

758, 759, 760, 761

Teichert C

155, 159, 160, 762, 763, 764, 765, 766

Terrill S E

767, 768, 769

Theron A C 336, 770

Thomas R P 173

Thompson R D 635, 771

Thomson B P 772

Thomson J M 773, 774, 775, 776

Tilbury L 236

Tillyard R J 777, 778

Trendall A F 213

Trumpler R 779

Tyndale-Biscoe M 780

Valente A 781

Van de Graaff W J E 782

Van der Moezel P G 72, 783

Wakefield F W 131

Walkom A B 784

Wallace W R 785

Waterhouse J B 786

Waterhouse W K 97

Watson E M 278, 481, 482, 483, 787, 788, 789, 790, 791, 792, 480

Watson L E 793

Watson J A L 225, 578

Watson J R

Wells J W 794

Wheeler W M 795

White D E 796

Whitehouse F W 797

Wiik H B 494 Williams F A 161

Williams G 798

Williams R F 799, 800

Williams S E 801

Wilson A F 802, 803, 804, 805, 806, 807

Wilson B A 96

Wilson P L 96

Withers T H 808, 809, 810

Wood W E 811

Woods P J 651

Woodall R 812

Woolley P A 781, 813, 814, 815

Woolnough W G 816

Wright A R L 817

Wright R L 818

Wurm P A S 667

Wyrwoll K H 819